

HARSHIT SOHANEY

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EXPERIENCE

Back-End Software Engineer Co-op | [Mozilla Corp.](#)

May 2023 - Present

- Implemented the spec for **Storage Access API** by upgrading storage access from per page to per frame, strengthening cross-site tracking security on Firefox
- Revamped the front-end & back-end for the clear browsing data process that improved user experience over controlling their privacy on the internet
- Improved Firefox privacy features including **Fingerprinting**, **Total Cookie Protection** and **Data Sanitization** to build trust amongst users

Application Developer Co-op | [Softchoice Corp.](#)

May 2022 - Aug 2022

- Optimized API logging tables with **Object Relational Mapping** using **LINQ** to **SQL** queries and improved access time from **30 seconds to 2 seconds**
- Improved the front-end & back-end for **Single Page Applications** on Softchoice's portal using **.NET Core** and **C#** to help users navigate items efficiently
- Implemented a planning interface by creating APIs to assist in determining development time and creating tasks for internal developer tooling

PROJECT HIGHLIGHTS

Syllabyte | [Personal Project/Founder](#)

May 2023 - Present

- Developed a personalized studying application to help students with ADHD tackle **time dysmorphia** and **decision paralysis** during the school year
- Designed an API architecture using **Django** and created a heuristics-based **recommendation algorithm** that sorts course tasks in order of importance
- Researched an AI based **PDF scanning** feature to automate task inputting which is predicted to save users **2-4 hours** in to-do list maintenance

Moodlist | [Deep Learning Project](#)

Oct 2022 - Jan 2023

- Designed and trained a mood classifier based on a user's music history to personalize recommendations using **PyTorch**, **NumPy**, and the **Spotify API**
- Improved the pipeline of **Feature Engineering** by developing a data cleaning workflow to process a playlist data set of 1 million items with 5 GBs of data
- Engineered a **Recurrent Neural Network** architecture with an accuracy of 75% in predicting a user's mood

GIS Mapping System | [University of Toronto ECE297](#)

Jan 2022 - May 2022

- Developed a **navigation system** using OpenStreetMap with **C++** and improved panning/movement speed by **98%**
- Applied algorithms such as **Dijkstra** and **A*** to optimize path-finding and included features such as directions, transit and auto complete search bar
- Employed heuristic algorithms such as **2-opt** and **Simulated Annealing**, along with techniques like **multi-threading**, to find an optimum solution to the Traveling Salesman Problem

ACHIEVEMENTS

- **Second Place Prize** winner against 200+ participants at NewHacks 2022
- **Second Place Prize** winner against 20 teams at ENACTUS UofT Innovation Pitch Competition for a social venture

EDUCATION

Bachelor of Applied Science in Computer Engineering

[University of Toronto](#)

Sept 2020 - May 2025

- *Minor* in Artificial Intelligence
- *Dean's Honor List* 2020 - 2023
- **Teaching Assistant** Operating Systems ECE344 2023

Courses

Data Structures & Algorithms, Operating Systems, Intro to Deep Learning, Probability & Statistics, Ethics of AI, Computer Networks

Clubs & Positions

UofT Musical Design - Founder/Co-president, **UofT AI** - Director of ProjectX, **UofTHacks** - Web-dev executive [uofthacks.com](#), **Learn AI** - Curriculum Content Lead, **ECE Club** - Events Director, **Performing Musician**

TECHNICAL SKILLS

Programming

Languages

C/C++

Python

SQL

C#

Java

Web

JavaScript

TypeScript

TCP/IP Network C

React

Django

jQuery

Skills

Agile Development

SCRUM

Software Communication

Machine Learning

PyTorch

Numpy

TensorFlow

NLTK

Matplotlib

Pandas

Software and Frameworks

OOP

Git

.NET Development

MVC

GCP